COUNTY: Cochise CROP: Garlic AREA: Kansas Settlement FARM: SE AZ Veg 98 ACRES: 1.0 YIELD: 780.0

780.0 Ct / Acre

WATER SOURCE: Ks Settlement, Elect IRRIGATION SYSTEM: Flood Furrow PREVIOUS CROP: Cotton, Upland

TILLAGE: Conventional SOIL: Sandy-Loam DATE: 11/11/98

ltem	Unit	Quantity	Price/ Unit	Budgeted /Acre	Total /Acre	Your Farm Budget
INCOME Garlic	Crtn	780.00	\$1.29	\$1,006.20	\$1,006.20	
CASH LAND PREPARAT Paid Labor (including Tractor/Self Prope Irrigation Other/ Contract		cluding sales tax)		31.31 27.30 6.82	65.43	
Chemicals and Custor Fertilizer Herbicide	m Applications			135.46 100.24	235.70	
Farm Machinery and ^N Diesel Fuel Repairs and Main Irrigation (excluding la Pump Energy - El Repairs and Main	atenance abor) lectric			13.26 23.36 208.59 17.61	36.62 226.21	
Other Purchased Inpu Other Services an				10.50	10.50	
	TOTAL CASH LAND PRE	PARATION AND GROW	ING EXPENSES		574.46	
CASH HARVEST AND P	OST HARVEST EXPENSES					
Paid Labor (including Tractor/Self Prope				0.41	0.41	
Farm Machinery and \ Diesel Fuel Repairs and Maint				0.17 0.29	0.47	
Custom Harvest/Post Other Materials	Harvest				910.00 781.75	
	TOTAL HARVEST AND F	OST HARVEST EXPEN	SE		1692.63	
OPERATING OVERHEA					15.45	
OPERATING INTEREST					21.49	
	TOTAL CASH OPERATIN				\$2,304.04	
	RETURNS OVER CASI	HOPERATING EXPENS	ES		(\$1,297.84)	

Notes: The above figures do not include ownership costs, see table B for detailed cost allocation.

ARIZONA COOPERATIVE EXTENSION
Department of Ag and Resource Economics
University of Arizona F 10 / 74

FARM: SE AZ Veg 98 COUNTY:Cochise Ks Settlement, Elect TILLAGE: Conventional WATER SOURCE: CROP: Garlic ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: Kansas Settlement YIELD: 780.0 Ct / Acre PREVIOUS CROP: Cotton, Upland DATE: 11/27/98

	CASH COST BASI	C (¢/ACDE)	TOTAL COST BA	SIS (\$/ACDE)
ltem	Income and Costs	Net Returns	Income and Costs	Net Returns
TOTAL INCOME at \$1.29 / Ct	\$1,006.20		\$1,006.20	
TOTAL OPERATING EXPENSES	\$2,304.04		\$2,304.04	
RETURN OVER CASH OPERATING EXPENSES		(\$1,297.84)		(\$1,297.84)
CASH OVERHEAD EXPENSES				
Taxes, Housing and Insurance, Farm Machinery Wells and Irrigation System	5.08 9.98		5.08 9.98	
General and Office Overhead (5.0% of Total Operating Exp.)	115.20		115.20	
General Farm Maintenance (3.0% of Total Operating Exp.)	69.12		69.12	
Total Cash Overhead Expenses	199.38		199.38	
Total Cash Operating and Overhead Cost	2,503.42		2,503.42	
RETURNS OVER CASH OPER. AND OVER. EXPENSES		(\$1,497.22)		(\$1,497.22)
CAPITAL ALLOCATIONS (100% Equity)			07.40	
Capital Replacement, Machinery and Vehicles Wells and Irrigation System			27.13 34.45	
Interest on Equity, Machinery and Vehicles			13.11	
Wells and Irrigation System			18.95	
Total Capital Allocations			93.64	
RETURNS TO LAND, CAPITAL, MANAGEMENT AND RISK - RETURNS TO LAND, MANAGEMENT AND RISK	>	> (\$1,497.22) 	>	(\$1,590.86)
Land Cost / Rent or Lease	50.00		50.00	
Total Land Costs	50.00		50.00	
RETURNS TO CAPITAL, MANAGEMENT AND RISK	>	(\$1,547.22)		
RETURNS TO MANAGEMENT AND RISK			>	(\$1,640.86)
Management Services (8% of Total Operation Expenses)			184.32	
TOTAL OWNERSHIP COST	249.38		527.34	
TOTAL COST	\$2,553.42		\$2,831.38	
RETURNS TO CAPITAL, MANAGEMENT AND RISK	>	(\$1,547.22)		
RETURNS TO RISK (PROFITS)			>	(\$1,825.18)
BREAK-EVEN PRICE TO COVER OPERATING COST (PER Lb)		\$2.95	1	\$2.95
BREAK-EVEN PRICE TO COVER OWNERSHIP COST BREAK-EVEN PRICE TO COVER TOTAL COST		\$0.32 \$3.27		\$0.68 \$3.63
DIVENUE AND LANGE TO COVER TOTAL COST		φυ.Δ1		φ3.03

COUNTY:Cochise FARM: SE AZ Veg 98 WATER SOURCE: Ks Settlement, Elect TILLAGE: Conventional CROP: Garlic ACRES: IRRIGATION SYSTEM: Flood Furrow Sandy-Loam 1.0 SOIL: 11/11/98 AREA: Kansas Settlement YIELD: 780.0 Ct / Acre PREVIOUS CROP: Cotton, Upland DATE:

	First		Operating Costs (\$/ACRE *) Per Operation					Tot. Cash				
No.	Month	Operation	Machine	Labor	Fuel/Rps.	Labor C	ust/Serv.	Materials	Total	Times	Expenses	Class
1	Oct	Plow	0.321	0.357	4.04	2.92			6.96	1.0	6.96	L
2	Oct	Disk	0.225	0.250	2.76	2.05			4.80	3.0	14.41	L
3	Oct	Make Borders	0.090	0.100	0.43	0.82			1.25	1.0	1.25	G
4	Oct	Block Borders	0.090	0.100	0.45	0.82			1.27	1.0	1.27	G
5	Nov	Preirrigate		0.800	45.24	5.46			50.70	1.0	50.70	G
6	Nov	Knock Borders	0.090	0.100	0.43	0.82			1.25	1.0	1.25	G
7	Nov	Soil Fertility					3.00		3.00	1.0	3.00	G
8	Nov	Apply Fert/Ground	0.180	0.200	0.94	1.64		74.91	77.48	1.0	77.48	G
9	Nov	List	0.225	0.250	1.99	2.05			4.04	1.0	4.04	L
10	Nov	Plant	0.900	2.000	13.09	15.01			28.11	1.0	28.11	L
11	Nov	Apply Herbicide/Ground	0.225	0.250	1.35	2.05		91.28	94.68	1.0	94.68	G
12	Nov	Irrigate		0.400	22.62	2.73			25.35	6.0	152.10	G
13	Nov	Apply Herbicide/Ground	0.225	0.250	1.35	2.05		8.96	12.36	1.0	12.36	G
14	Dec	Cultivate	0.225	0.250	2.41	2.05			4.46	1.0	4.46	G
15	Dec	Buck Rows	0.045	0.050	0.19	0.41			0.60	1.0	0.60	G
16	Feb	Irrigate/Run Fertilizer		0.400	22.62	2.73		30.28	55.63	2.0	111.26	G
17	Apr	Prepare Ends	0.045	0.050	0.48	0.41			0.89	1.0	0.89	Н
18	Dec	Deflowering					7.50		7.50	1.0	7.50	G
19	May	Harvest 780 Ct					780.00	781.75	1561.75	1.0	1561.75	Н
20	May	Haul, Custom 650 Ct					130.00		130.00	1.0	130.00	Н
21	Jun	Disk Residue 650 Ct	0.150	0.167	2.41	1.37			3.78	1.0	3.78	L
		Pickup Use60 Mi/Acre	2.000		15.45						15.45	
		Operating Interest at 10.0	-				21.49				21.49	
TOT	AL CASH	OPERATING EXPENSES	(includes a	Il times over): 279.49	65.84	941.99	1017.46			2304.04	Т

*NOTES: Machine and labor hours and operating cost are for one time over the designated acreage. The "Tot. Cash Expense" column and the "TOTAL CASH OPERATING EXPENSES" row include all operations, all times over. Classes are defined below.

OPERATING COST SUMMARY BY	CLASS
Land Preparation (L)	57.29
Growing (G)	517.18
Harvest (H)	1,692.63
Post Harvest (P)	0.00
Marketing (M)	0.00
Operating Overhead (O)	36.94
Total (T)	\$2,304.04

SENSITIVITY OF THE NET	REVENUES OVER TOTA	L CASH EXPENSES (\$/ACRE)
SENSITIVITI OF THE NET	I KEVENUES OVER TOTA	L CASH EXPENSES (\$/ACKE)

Prices		- 25%	- 10%	Budgeted	+ 10%	+ 25%	•
Yields		\$0.97	\$1.16	\$1.29	\$1.42	\$1.61	Break-even Price
- 25% - 10%	585.0 702.0	-1,315.67 -1,456.37	, -	-1,127.01 -1,229.97	-1,051.54 -1.139.41	-938.34 -1.003.58	3.22 3.04
Budgeted + 10%	780.0	-1,550.17 -1,643.97	-1,399.24	-1,223.37 -1,298.62 -1.367.26	-1,198.00	-1,047.07	2.95 2.88
+ 10%	858.0	-1,043.97	-1,477.94	-1,367.26	-1,256.58	-1,090.56	2.00
Break-even Yield		-509.06	-606.68	-695.61	-815.09	-1,097.96	

ARIZONA COOPERATIVE EXTENSION
Department of Ag and Resource Economics
University of Arizona F 10 / 74

COUNTY:Cochise FARM: SE AZ Veg 98 WATER SOURCE: Ks Settlement, Elect TILLAGE: Conventional CROP: Garlic ACRES: 1.0 IRRIGATION SYSTEM: Flood Furrow SOIL: Sandy-Loam AREA: Kansas Settlement YIELD: 780.0 Ct / Acre PREVIOUS CROP: Cotton, Upland DATE: 11/11/98

·		Water	•		Fuel, Oil	O _I	peratir	ng Costs (\$/A	CRE *)		
Number Applied Total				Purchased							
Month *	Irrigations	(inches)	Labor (Hrs)	Water	and Repairs	La	bor	Chemicals	Purchases	Services	Total
AUG P			0.10		0.42		0.82				1.24
OCT P			0.10		7.08		5.79				12.87
NOV P	2.0	12.0	4.75		89.39		3.85	175.14		3.00	301.39
DEC P	1.0	4.0	0.70		28.60		9.95	175.14		3.00	38.55
JAN C	1.0	4.0	0.70		22.62		9.95 2.73				25.35
FEB C	1.0	4.0	0.40		22.62		2.73 2.73	30.28			55.63
MAR C	2.0	4.0 8.0	0.40		45.24			30.28			80.98
APR C	2.0	8.0	0.85		45.24 45.71		5.46 3.14	30.20		7.50	56.35
	2.0	8.0	0.85		45.71		3.14		704.75	7.50	
MAY C			0.47		0.00		4 07		781.75	910.00	1691.75
JUN C	00 M:/A		0.17	1	2.36		1.37				3.73
	60 Mi/Acre				15.45					04.46	15.45
Operating Ir	nterest at 10.0									21.49	21.49
Total	9.0	40.0	8.87		279.49	(55.84	235.71	781.75	941.99	2304.78
%					12.13		2.86	10.23	33.92	40.87	100.00
TOTAL RES	SOURCE REC	ILIREMENT	S (per Acre)	TOTAL ENE	RGY REQUIRE	MENTS	ner A	cre)			
Total N	DOUNGE REG	256.4	o (per Acre)	Diesel Fu		17.2	Gal	ore)			
Total P		212.0		Unleaded		6.0	Gal				
Total K		0.0			Pumping	2781.2	KW				
Total Lab	or	8.9		All Direct		12.6	MB				
Total Wat		40.0		All Dilect	Lileigy	12.0	IVI	10			
TOtal Wat	CI .	40.0									
EOI IIDMEN	IT REQUIREM	MENTS (per	Acro)								
Bed Shar		\ .	90 Hr	Blade Scraper, 10'		0.09 Hr		Border Dis	sk 6' Disk	0.18 Hr	
	r, Sweep, 4 Rv		22 Hr	Fertilizer Broadcas		0.09 III 0.18 Hr		Lister, 5 B		0.10 Hr	
	rd Plow, 4-16		32 Hr	Offset Disk, 12'	/	0.16 Hr		Offset Dis		0.22 Tr	
Offset Di			15 Hr	Pickup Truck, 1/2		2.00 Hr			amor, 4 Bd,8	0.90 Hr	
Rowbuck			05 Hr	Saddle Tk Sprayer		2.00 Hr 0.45 Hr			0 PTO HP,	0.95 Hr	
	., 10 60 PTO HP,		90 Hr	Tractor, 100 PTO I		1.17 Hr			25 PTO HP,	1.22 Hr	
	150 PTO HP,		15 Hr	Tractor, 100 FTO I	1F,	1.17 111		Tractor, 12	25 F 10 HF,	1.22 111	
Haciol,	100110111	0.	10 111								
MATEDIAL	S REQUIREM	ENT (por A	oro)								
11-53-00		\ I	00 Lb	32-00-00, URAN 3	2 Lad 6	0.00 Ga		Boxes & S	tupplies	780.00 Ct	
				DCPA		4.00 Lb		Garlic Clo		10.00 Ct	
Bromoxy Water, P			00 Pt	DOPA	1.	+.UU LD		Gariic Cio	ves	10.00 C	
water, P	unip	40.	00 AI								
		(nor Aors)									
Irrigators	QUIREMENT		00 Ur	Othor		1 00 4-		Tractor		2 07 11-	
וונומאזטנפ		4.	00 Hr	Other		1.00 Hr		Tractor		3.87 Hr	

*NOTE: P = Previous Year C = Current Year N = Next Year

ARIZONA COOPERATIVE EXTENSION
Department of Ag and Resource Economics
University of Arizona F 10 / 74

COUNTY:Cochise FARM: SE AZ Veg 98 WATER SOURCE: Ks Settlement, Elect TILLAGE: Conventional Sandy-Loam 11/11/98 CROP: Garlic ACRES: IRRIGATION SYSTEM: Flood Furrow SOIL: 1.0 YIELD: AREA: Kansas Settlement 780.0 Ct / Acre PREVIOUS CROP: Cotton, Upland DATE:

No	First .MonthT	imes Operation	Equipment/ Custom Oper HP Self-Prop./ Implement	Job Rate Acres/Hr		Use and Cost Appl. Ra	te \$ / Unit	Service Cost Labor \$ / Unit Type
		·	• •			• • • • • • • • • • • • • • • • • • • •	·	
1	Oct	1.0 Plow	125 Moldboard Plow, 4-16 2	2.80				Tractor
2	Oct	3.0 Disk	125 Offset Disk, 12'	4.00				Tractor
3	Oct	1.0 Make Borders	60 Border Disk, 6' Disk	10.00				Tractor
4	Oct	1.0 Block Borders	60 Blade Scraper, 10'	10.00				Tractor
5	Nov	1.0 Preirrigate		1.25	Water, Pump	8.00 AI	67.86 A	F Irrigators
6	Nov	1.0 Knock Borders	60 Border Disk, 6' Disk	10.00				Tractor
7	Nov	1.0 Soil Fertility	CST Soil Analysis (Surface)					3.00 Ac
8	Nov	1.0 Apply Fert/Ground	60 Fertilizer Broadcaster,	5.00	11-53-00, Dry	400.00 Lb	355.00 T	n Tractor
9	Nov	1.0 List	100 Lister, 5 Bottom	4.00				Tractor
10	Nov	1.0 Plant	100 Planter/Gramor, 4 Bd,8	1.00	Garlic Cloves	10.00 C	0.00 C\	N Tractor
			Bed Shaper, 4 Rw					Other
11	Nov	1.0 Apply Herbicide/Ground	ind60 Saddle Tk Sprayer, 2 Tk 8	4.00	DCPA	14.00 Lb	6.18 L	
12	Nov	6.0 Irrigate		2.50	Water, Pump	4.00 AI	67.86 A	F Irrigators
13	Nov	1.0 Apply Herbicide/Ground	ind60 Saddle Tk Sprayer, 2 Tk 8	4.00	Bromoxynil	1.00 Pt	67.93 G	a Tractor
14	Dec	1.0 Cultivate	125 Cultivator, Sweep, 4 Rw	4.00				Tractor
15	Dec	1.0 Buck Rows	50 Rowbuck, 10'	20.00				Tractor
16	Feb	2.0 Irrigate/Run Fertilizer		2.50	Water, Pump	4.00 AI	67.86 A	F Irrigators
					32-00-00, URAN 32,	30.00 Ga	173.00 T	
17	Apr	1.0 Prepare Ends	100 Offset Disk, 13.5'	20.00				Tractor
18	Dec	1.0 Deflowering	CST Deflowering					7.50 Ac
19	May	1.0 Harvest	CST Harvest Garlic		Boxes & Supplies	780.00 Ct	0.95	
20	May	1.0 Haul, Custom	CST Haul Garlic					0.20 Ct
21	Jun	1.0 Disk Residue	150 Offset Disk, 18'	6.00				Tractor
		Pickup use 60 Mi/Ac	Pickup Truck, 1/2 Ton	0.50				

^{*}NOTES: Machine times, labor times, and material rates are for one time over the designated acreage.

ARIZONA COOPERATIVE EXTENSION
Department of Ag and Resource Economics
University of Arizona F 10/74